

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below), or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

PURIFICATION OF OLIGOMERS

the specification of which (check one)

is attached hereto

was filed on June 27, 1997

as application Serial No. 08/883,712

and was amended on: _____

(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)	Priority Claimed
(Number)	(Country) (Day/Month/Year Filed)
(Number)	(Country) (Day/Month/Year Filed)
(Number)	(Country) (Day/Month/Year Filed)

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:

Provisional Application Number Filing Date

(Number)	(Day/Month/Year Filed)
(Number)	(Day/Month/Year Filed)
(Number)	(Day/Month/Year Filed)

Title: "PURIFICATION OF OLIGOMERS"

By: Brian S. Sproat

Filed: June 27, 1997

DECLARATION

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or PCT international application(s) designating the United States of America listed below and, insofar as the subject matter of each of the claims of the application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing Date)	Status (patented, pending, abandoned)

As named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Patrea L. Pabst	31,284
D. Andrew Floam	34,597
David S. Bradin	37,783
Collen A. Beard	38,824
Robert A. Hodges	P-41,074

Send Correspondence to: Patrea L. Pabst, Esq.
ARNALL GOLDEN & GREGORY LLP
2800 One Atlantic Center
1201 W. Peachtree Street
Atlanta, GA 30309-3450

Direct telephone calls to: Patrea L. Pabst (404) 873-8794

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 101 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Brian S. Sproat

Inventor's signature Brian S. Sproat

Residence Am Antonsberg 10, 37139 Adelebsen, Germany

Citizenship British

Post Office Address Am Antonsberg 10, 37139 Adelebsen, Germany

Date 22 July 1997

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Brian S. Sproat

Serial No.: 08/883,712 Group Art Unit: 1656

Batch No.: D82

Filed: June 27, 1997 Examiner: Houtteman, S.

For: PURIFICATION OF OLIGOMERS

**POWER OF ATTORNEY BY ASSIGNEE OF
UNDIVIDED JOINT INTEREST AND REVOCATION OF PRIOR POWERS**

As owner of an undivided joint interest of the above-identified patent application, as evidenced by the executed Statement Under 37 C.F.R. § 3.73(b) attached hereto, all powers of attorney previously given are hereby revoked and the following attorneys are hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected therewith:

Please send all correspondence relating to the above patent application to

Patrea L. Pabst
ARNALL GOLDEN & GREGORY, LLP
2800 One Atlantic Center
1201 West Peachtree Street
Atlanta, Georgia 30309-3450
(404) 873-8794 - Telephone
(404) 873-8795 - Telefax

U.S.S.N. 08/883,712

Filed: June 27, 1997

**POWER OF ATTORNEY BY ASSIGNEE
OF UNDIVIDED JOINT INTEREST AND
REVOCATION OF PRIOR POWERS**

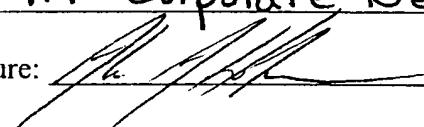
The undersigned signatory (whose titled is supplied below) is empowered to act on behalf of the assignee identified below, and has reviewed all the documents in the chain of title of the patent application and, to the best of undersigned's knowledge and belief, title is jointly held by the assignee and Yale University.

RIBOZYME PHARMACEUTICALS, INC.

Date: 5/8/01

Name: Alene Holzman

Title: V.P. Corporate Development

Signature: 

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Brian S. Sproat

Application No./Patent No.: 08/883,712 Filed/Issue Date: June 27, 1997

Entitled: **PURIFICATION OF OLIGOMERS**

Ribozyme Pharmaceuticals, Inc. a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

- the assignee of the entire right, title, and interest; or
- an assignee of less than the entire right, title and interest.
The extent (by, percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

A. [] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

B. [v] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Brian S. Sproat To: Innovir Laboratories, Inc.

The document was recorded in the United States Patent and Trademark Office at Reel 9488, Frame 0580, or for which a copy thereof is attached.

Ribozyme Pharmaceuticals, Inc. and

2. From: Innovir Laboratories, Inc. To: Innovir Laboratories, Inc.

The document was recorded in the United States Patent and Trademark Office at Reel 011437, Frame 0183, or for which a copy thereof is attached.

3. From: Innovir Laboratories, Inc. To: Yale University

The document was recorded in the United States Patent and Trademark Office at Reel 010660, Frame 0330, or for which a copy thereof is attached.

[] Additional documents in the chain of title are listed on a supplemental sheet.

[] Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

5/8/01
Date

Alene Holzman
Typed or printed name

Signature

V.P., Corporate Development
Title

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Amherst Brian S. Somer

Serial No.: 08/883,712

Group Art Unit: 1656

Filed: June 27, 1997

Examiner: House

For: PURIFICATION OF OLIGOMERS

**POWER OF ATTORNEY BY ASSIGNEE OF
UNDIVIDED JOINT INTEREST AND REVOCATION OF PRIOR POWERS**

As a result of an undivided joint interest of the above-identified patent applicant, as evidenced by the executed Statement Under 37 C.F.R. § 3.73(b) submitted herewith, all powers of attorney previously given are hereby revoked and the following attorney, one hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected therewith:

**Patrea L. Pabst
Zhaoyang Li**

Registration No. 31,284
Registration No. 46,872

Please send all correspondence relating to the above patent application to

Patricia L. Pabst
HOLLAND & KNIGHT LLP
2000 One Atlantic Center
1601 West Peachtree Street, N.E.
Atlanta, Georgia 30309-3400
(404) 817-8473 - Telephone
(404) 541-4489 - Fax

ILL 125 (OCR 1048) 20003/95
TUT 245/199 MBR1300,865

ESNCO BUSINESS

11:51 1002-12-A00

U.S.P.N. 07003,713
Filed: June 27, 1997
POWER OF ATTORNEY BY ASSIGNEE
OF INVENTION; JOINT INTEREST AND
REVOCATION OF PRIOR POWERS

The undersigned signatory (whose titled is supplied below) is empowered to act on behalf of the assignee identified below, and has reviewed all the documents in the chain of title of the parent application and, to the best of undersigned's knowledge and belief, title is jointly held by the assignee and Ribozyme Pharmaceuticals, Inc.

YALE UNIVERSITY

Date: 6/21/01

Name: DOROTHY L ROBINSON

Title: VICE PRESIDENT AND GENERAL COUNSEL

Signature: Dorothy L Robinson

ATLA 0300541 v1

2

IL 125 (GCR 1048) 30007/98
RPN 245799 1459008,63

203 432 7968 P.03

GENERAL COUNSEL

JUN-21-2001 14:12

PTO/USPTO (DB-00)
Patent and Trademark Office
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Brian S. Sproat

Application No./Patent No.: 08/883,712 Filed/Issue Date: June 27, 1997

Entitled: PURIFICATION OF OLIGOMERS

Yale University

(Name of Assignee)

Type of Assignee: A. n. corporation, partnership, university, government agency, etc.

Statement: Check if so.

1. the assignee of title to the right, etc., has interest in2. an interest less than the entire right, etc., and interest in
The extent (by, percentage) of its ownership interest is 50 %

In the patent application/patent identified above by virtue of either:

A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

B. A chain of title from the inventor(s) of the patent application/patent identified above, to the current assignee as shown below:

1. From: Brian S. Sproat To: Innovir Laboratories, Inc.

The document was recorded in the United States Patent and Trademark Office at
Reel 011437, Frame 0183, or for which a copy thereof is attached.2. From: Innovir Laboratories, Inc. To: Innovir Laboratories, Inc. and Biogenix Pharmaceuticals, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 011437, Frame 0183, or for which a copy thereof is attached.3. From: Innovir Laboratories, Inc. To: Yale University
The document was recorded in the United States Patent and Trademark Office at
Reel 010660, Frame 0930, or for which a copy thereof is attached. Additional documents in the chain of title are listed on a supplemental sheet. Copies of assignments or other documents in the chain of title are attached.
NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08!

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

1/14/01

Date

DOROTHY K. ROBINSON

Typed or printed name

Dorothy K. Robinson

Signature

VICE PRESIDENT AND GENERAL COUNSEL

Title

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual user. Any comments or the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

JANUARY 28, 1999

PTAS

ARNALL GOLDEN & GREGORY, LLP
PATREA L. PABST, ESQ.
2800 ONE ATLANTIC CENTER
1201 WEST PEACHTREE STREET
ATLANTA, GA 30309-3450



100846446A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 09/02/1997

REEL/FRAME: 9488/0580
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNEE:
SPROUT, BRIAN S.

DOC DATE: 07/23/1997

ASSIGNEE:
INNOVIR LABORATORIES, INC.
510 EAST 73RD STREET
NEW YORK, NEW YORK 10021

SERIAL NUMBER: 08883712
PATENT NUMBER:

FILING DATE: 06/27/1997
ISSUE DATE:

ALLYSON PURNELL, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

RECEIVED

FEB 04 1999

PATENT DEPT.

SEARCHED FOR IL 1125

LSH
DATE 2-5-99

FORM PTO 1619A
Expires 06/30/99 69169
OMB 0651-0027

SEP 02 1997

PATENT & TRADEMARK OFFICE

10-08-1998



100846446

U.S. Department of Commerce

Patent and Trademark Office

PATENT

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PATENTS ONLY

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

New
 Resubmission (Non-Recordation)

Document ID#

Correction of PTO Error

Reel # Frame #

Corrective Document

Reel # Frame #

Conveyance Type

Assignment
 License

Security Agreement
 Change of Name

Merger

Other
U.S. Government

(For Use ONLY by U.S. Government Agencies)

Departmental File
 Secret File

Conveying Party(ies)



Mark if additional names of conveying parties attached

Execution Date
Month Day Year

07231997

Name (line 1) Sproat, Brian S.

Name (line 2)

Second Party

Name (line 1)

Name (line 2)

Execution Date

Receiving Party



Mark if additional names of receiving parties attached

Name (line 1) Innovir Laboratories, Inc.

Name (line 2)

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Address (line 1) 510 East 73rd Street

Address (line 2)

Address (line 3) New York

NY - USA

10021

City

State/County

Zip Code

Domestic Representative Name and Address

Enter the first Receiving Party only.

Name

09/23/1997 DBEACH 0000060 08883712

32 FC:581 Address (line 1)

40.00 DP

Address (line 2)

Address (line 3)

Address (line 4)

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Mail documents to be recorded with required cover sheet(s) information to:

Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

Correspondent Name and Address

Area Code and Telephone
Number

404 873 8794

Name Address (line 1) Address (line 2) Address (line 3) Address (line 4) Pages Enter the total number of pages of the attached conveyance document
including any attachments. #

Application Number(s) or Patent Number(s)

 Mark if additional numbers attached

Enter either the Patent Application or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

Month Day Year

If this document is being filed together with a new Patent Application, enter the date the patent application
was signed by the first named executing inventor.

Patent Cooperation Treaty (PCT)

Enter PCT application
number only if a U.S.
Application Number has
not been assigned.PCT PCT PCT PCT PCT PCT

Number of Properties

Enter the total number of properties involved. #

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41):

\$

Method of Payment:

Enclosed Deposit Account

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number: #

Authorization to charge additional fees:

Yes No

Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is
a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Patrea L. Pabst, Esq.

August 27, 1997

Name of Person Signing

Signature

Date

ASSIGNMENT

I, Brian S. Sproat of Am Antonsberg 10, 37139 Adelebsen, Germany, in consideration of Five Dollars and other valuable consideration paid to me by Innovir Laboratories, Inc., a corporation of New York having its principal place of business at 510 E. 73rd Street, New York, New York 10021, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said Innovir Laboratories, Inc., its successors and assigns, the entire interest for the United States of America and its territories and all foreign countries and jurisdictions, including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in "Purification of Oligomers" described in U.S. Serial No. 08/883,712 filed June 27, 1997, by Brian S. Sproat, inventor in the United States Patent and Trademark Office, and in all Letters Patent of the United States and its territories and all foreign countries and jurisdictions which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuation, continuation-in-part, reissue or other applications based in whole or in part thereon. And I agree, for myself and my executor and administrator, with said corporation and its successors and assigns but at its or their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and its territories and in all other foreign countries and jurisdictions to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And I do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this _____ day of July 23, 1997.



Brian S. Sproat



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

MARCH 30, 2001

PTAS

ARNALL GOLDEN & GREGORY, LLP
PATREA L. PABST, ESQ.
2800 ONE ATLANTIC CENTER
1201 WEST PEACHTREE STREET
ATLANTA, GA 30309-3450



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UNITED STATES PATENT AND TRADEMARK OFFICE
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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/02/2001

REEL/FRAME: 011437/0183

NUMBER OF PAGES: 6

BRIEF: CORRECTIVE ASSIGNMENT TO ADD SECOND ASSIGNEE ERRONEOUSLY OMITTED ON REEL 010249 FRAME 0439.

ASSIGNOR:
INNOVIR LABORATORIES, INC.

DOC DATE: 08/09/1999

ASSIGNEE:
RIBOZYME PHARMACEUTICALS, INC.
2950 WILDERNESS PLACE
BOULDER, COLORADO 80301

RECEIVED

APR 05 2001

ASSIGNEE:
INNOVIR LABORATORIES, INC.
2751 CENTERVILLE ROAD, SUITE 210
LITTLE FALLS II
WILMINGTON, DELAWARE 19808

PATENT DEPT.

SERIAL NUMBER: 08883712
PATENT NUMBER:

FILING DATE: 06/27/1997
ISSUE DATE:

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~JL-13-01

011437/0183 PAGE 2

PAULA MCCRAY, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

01-23-2001



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PATENTS ONLY

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TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

New
 Resubmission (Non-Recordation)
Document ID#
 Correction of PTO Error
Reel # Frame #
 Corrective Document
Reel # **010249** Frame # **0439**

Conveyance Type

Assignment Security Agreement
 License Change of Name
 Merger Other
U.S. Government
(For Use ONLY by U.S. Government Agencies)
 Departmental File Secret File

Conveying Party(ies)

Mark if additional names of conveying parties attached

Execution Date
Month Day Year

08091999

Name (line 1) Innovir Laboratories, Inc.

Name (line 2)

Second Party

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) Ribozyme Pharmaceuticals, Inc.

If document to be recorded
is an assignment and the
receiving party is not
domiciled in the United
States, an appointment
of a domestic
representative is attached.
(Designation must be a
separate document from
Assignment.)

Name (line 2)

Address (line 1) 2950 Wilderness Place

Address (line 2)

Address (line 3) Boulder Colorado 80301
City State/Country Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

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01-23-2001 00000000000000000000000000000000

01-FEB-01

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Mail documents to be recorded with required cover sheet(s) information to: ILI 125 (OCR 1048) 20003/95
Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY

Conveying Party(ies)

Enter additional Conveying Parties

Mark if additional names of conveying parties attached

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

Receiving Party(ies)

Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1) Innovir Laboratories, Inc.

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1) 2751 Centerville Road, Suite 210

Address (line 2) Little Falls II

Address (line 3) Wilmington

City

Delaware

State/Country

19808

Zip Code

Name (line 1)

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

08883712		

Patent Number(s)

Correspondent Name and Address

Area Code and Telephone Number **(404) 873-8794**

Name **Patrear L. Pabst, Esq.**

Address (line 1) **Arnall Golden & Gregory, LLP**

Address (line 2) **2800 One Atlantic Center**

Address (line 3) **1201 West Peachtree Street**

Address (line 4) **Atlanta, GA 30309-3450**

Pages Enter the total number of pages of the attached conveyance document
including any attachments. # **4**

Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

08883712

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number

PCT

PCT

PCT

only if a U.S. Application Number
has not been assigned.

PCT

PCT

PCT

Number of Properties

Enter the total number of properties involved. # **1**

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$ **40.00**

Method of Payment:

Enclosed Deposit Account

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number: **# 01-2507**

Authorization to charge additional fees:

Yes

No

Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Robert A. Hodges

Name of Person Signing

Reg. No.: 41,074


Signature

12/28/00

Date

09-23-1999

Docket No. 245/199

RECOR

RECEIPT

To the Honorable Commissioner of Patents and Tradem.

1. Name of conveying party(ies): 1999 SEP 21 AM 9:14
Innovir Laboratories, Inc.

OPR/FINANCE

9.21.99

Additional name(s) of conveying party(ies) attached?

 Yes No

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: 9 August 1999

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s). 08/883,712

B. Patent No(s):

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Richard J. Warburg

Internal Address: LYON & LYON LLP
633 West Fifth Street, Suite 4700
Los Angeles, CA 90071-2066

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 40.00

 Enclosed Charge this Deposit Account if any additional fee is required

8. Deposit Account Number: 12-2475

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Wesley B. Ames, Reg. No. 40,893

Date: 16 September 1999

Total number of pages including cover sheet: 3

OMB No. 0651-0011 (exp. 4/94)

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Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks

Box Assignments

Washington, D.C. 20231

09/22/1999 DNGUYEN 00000110 08883712

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ASSIGNMENT

Innovir Laboratories, Inc., a corporation of the State of Delaware, having its principal place of business at 2751 Centerville Road, Suite 210, Little Falls II, Wilmington, Delaware 19808, in consideration of ten dollars and other valuable consideration paid to it by Ribozyme Pharmaceuticals, Inc., a corporation of the State of Delaware, having its principal place of business at 2950 Wilderness Place, Boulder, Colorado 80301, and Innovir Laboratories, Inc., a corporation of the State of Delaware, having its principal place of business at 2751 Centerville Road, Suite 210, Little Falls II, Wilmington, Delaware 19808, the receipt of which is hereby acknowledged, does hereby sell, assign and transfer a joint and undivided interest to said Ribozyme Pharmaceuticals, Inc. and Innovir Laboratories, Inc., their successors and assigns, the entire interest for the United States of America, and its territories and all foreign countries and jurisdictions, including all rights of priority under the International Convention for the Protection of Industrial Property, in a certain invention or improvement in "*Purification of Oligomers*" described in U.S. Application Serial No. 08/883,712 filed in the United States Patent and Trademark Office on June 27, 1997, by Brian S. Sproat, and in all Letters Patent of the United States and its territories and all foreign countries and jurisdictions which may or shall be granted on said listed invention, or any parts thereof, or on said application, or any provisional, divisional, continuation, continuation-in-part, reissue, or other applications based in whole or in part thereon, and including the right to pursue and recover past damages for infringement thereof. And Innovir Laboratories, Inc. agrees, for itself and its successors and assigns, with said corporations and their successors and assigns, but at their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent, and to recover for patent infringement of the Patent, in the United States and its territories and in all other foreign countries and jurisdictions to said corporations, with specifications and claims in such form as shall be approved by the counsel of said corporations, and to vest and confirm in said corporations, their successors and assigns, the legal title to all such patents.

U.S.S.N.: 08/883,712
Filed: June 27, 1997
ASSIGNMENT

And I do hereby authorize and request the Commissioner of Patents and
Trademarks of the United States to issue such Letters Patent as shall be granted upon said
application or applications based thereon to said corporations, their successors and assigns.

WITNESS my hand and seal this 9th day of AUGUST, 1999.

INNOVIR LABORATORIES, INC.

David A. Jackson
By (name): DAVID A. JACKSON
Title: CHAIRMAN

State of Delaware)
County of New Castle)

Then personally appeared the above named David A. Jackson, agent
empowered to act on behalf of assignor Innovir Laboratories, Inc., and acknowledged the
foregoing instrument to be his/her free act and deed, before me this 9th day of
August, 1999.

Donald D. Doan
Notary Public

My Commission expires: 3/7/2001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Brian S. Sproat

Serial No.: 08/883,712 Group Art Unit: 1656

Filed: June 27, 1997 Examiner: Houtteman, S.

For: PURIFICATION OF OLIGOMERS

U.S. Patent and Trademark Office
Assignment Division
Box Assignments, CG-4
1213 Jefferson Davis Highway
Suite 320
Washington, D.C. 20231

**REQUEST FOR CORRECTED NOTICE OF
RECORDATION OF ASSIGNMENT --- APPLICANT'S ERROR**

Sir:

Applicant respectfully requests a corrected Notice of Recordation of Assignment for the Assignment recorded September 21, 1999, at Reel 010249, Frame 0439, in the above-identified application. Applicant erroneously listed only one Receiving Party, Ribozyme Pharmaceuticals, Inc. on Form PTO-1595. There should be two Receiving Parties, Ribozyme Pharmaceuticals, Inc. and Innovir Laboratories, Inc.

Applicant has enclosed a corrective Form PTO-1619A-C, with attached copies of the

(a) Notice of Recordation of Assignment recorded September 21, 1999, at Reel 010249, Frame 0439, with the correction noted in red, (b) executed Form PTO-1595, (c) executed

U.S.S.N.: 08/883,712

Filed: June 27, 1997

**REQUEST FOR CORRECTED NOTICE
OF RECORDATION OF ASSIGNMENT --
APPLICANT'S ERROR**

Assignment from Innovir Laboratories, Inc. to Ribozyme Pharmaceuticals, Inc. and Innovir

Laboratories, Inc., and (d) check in the amount of \$40.00 for the recordation fee.

Respectfully submitted,



Robert A. Hodges
Reg. No. 41,074

Date: December 28, 2000

ARNALL GOLDEN & GREGORY, LLP
2800 One Atlantic Center
1201 West Peachtree Street
Atlanta, GA 30309-3450
(404) 873-8796
(404) 873-8797 (fax)



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

DECEMBER 06, 1999

PTAS

LYON & LYON LLP
RICHARD J. WURBURG
633 WEST FIFTH STREET, SUITE 4700
LOS ANGELES, CA 90071-2066



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UNITED STATES PATENT AND TRADEMARK OFFICE
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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 09/21/1999

REEL/FRAME: 010249/0439

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNEE:

INNOVIR LABORATORIES, INC.

DOC DATE: 08/09/1999

ASSIGNEE:

RIBOZYME PHARMACEUTICALS, INC.
2950 WILDERNESS PLACE
BOULDER, COLORADO 80301

SERIAL NUMBER: 08883712
PATENT NUMBER:

FILING DATE: 06/27/1997
ISSUE DATE:

ASSIGNEE:
INNOVIR LABORATORIES, INC.
2751 CENTERVILLE ROAD
SUITE 210, LITTLE FALLS II
WILMINGTON, DELAWARE 19808
KIMBERLY WHITE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

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OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

JULY 25, 2000

PTAS

ARNALL GOLDEN & GREGORY LLP
PATREA L. PABST, ESQ.
2800 ONE ATLANTIC CENTER
1201 WEST PEACHTREE STREET
ATLANTA, GA 30309-3450



101393133A

**CORRECTED
NOTICE**

UNITED STATES PATENT AND TRADEMARK OFFICE
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RECORDATION DATE: 03/06/2000

REEL/FRAME: 010660/0330

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

INNOVIR LABORATORIES, INC.

DOC DATE: 01/24/2000

ASSIGNEE:

YALE UNIVERSITY
451 COLLEGE STREET
NEW HAVEN, CONNECTICUT 06511

SERIAL NUMBER: 08883712

FILING DATE: 06/27/1997

PATENT NUMBER:

ISSUE DATE:

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DATE 8-10-00

07-25-2000

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Submission Type

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<input type="checkbox"/> Correction of PTO Error Reel # <input type="text"/> Frame # <input type="text"/>	<input type="checkbox"/> Corrective Document Reel # <input type="text"/> Frame # <input type="text"/>

Conveyance Type

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Conveying Party(ies)

Mark if additional names of conveying parties attached Execution Date
Month Day Year

01242000

Name (line 1) Innovir Laboratories, Inc.

Name (line 2)

Second Party

Name (line 1) Execution Date
Month Day Year

Name (line 2)

Receiving Party

Mark if additional names of receiving parties attached

If document to be recorded
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Address (line 1) 451 College Street

Address (line 2)

Address (line 3) New Haven

City

Connecticut

State/Country

06511

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Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

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Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

Correspondent Name and Address

Area Code and Telephone Number **(404) 873-8794**

Name **Patrea L. Pabst, Esq.**

Address (line 1) **Arnall Golden & Gregory, LLP**

Address (line 2) **2800 One Atlantic Center**

Address (line 3) **1201 West Peachtree Street**

Address (line 4) **Atlanta, GA 30309-3450**

Pages Enter the total number of pages of the attached conveyance document including any attachments. **#** **2**

Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

08883712

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month **Day** **Year**

Patent Cooperation Treaty (PCT)

Enter PCT application number
only if a U.S. Application Number
has not been assigned.

PCT

PCT

PCT

PCT

PCT

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Number of Properties

Enter the total number of properties involved. **#** **1**

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): **\$ 40.00**

Method of Payment:

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

01-2507

Authorization to charge additional fees:

Yes

No

Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Robert A. Hodges

Name of Person Signing

Reg. No.: 41,074

Signature

Date

ASSIGNMENT

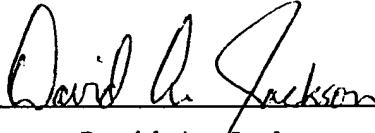
Innovir Laboratories, Inc., a corporation of the State of Delaware, having its principal place of business at 2751 Centerville Road, Suite 210, Little Falls II, Wilmington, Delaware 19808, in consideration of ten dollars and other valuable consideration paid to it by Yale University, a corporation of the State of Connecticut, having its principal place of business at 451 College Street, New Haven, Connecticut 06511, the receipt of which is hereby acknowledged, does hereby sell, assign and transfer unto said Yale University, its successors and assigns, its joint and undivided interest for the United States of America, and its territories and all foreign countries and jurisdictions, including all rights of priority under the International Convention for the Protection of Industrial Property, in a certain invention or improvement in "*Purification of Oligomers*" described in U.S. Application Serial No. 08/883,712 filed in the United States Patent and Trademark Office on June 27, 1997, by Brian S. Sproat, and in all Letters Patent of the United States and its territories and all foreign countries and jurisdictions which may or shall be granted on said listed invention, or any parts thereof, or on said application, or any provisional, divisional, continuation, continuation-in-part, reissue, or other applications based in whole or in part thereon, and including the right to pursue and recover past damages for infringement thereof. And Innovir Laboratories, Inc. agrees, for itself and its successors and assigns, with said corporation and its successors and assigns, but at its or their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent, and to recover for patent infringement of the Patent, in the United States and its territories and in all other foreign countries and jurisdictions to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation, and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

"Purification of Oligomers"
By: Brian S. Sproat
U.S.S.N.: 08/883,712
Filed: June 27, 1997
ASSIGNMENT

And Innovir Laboratories, Inc. does hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this 24 day of January, 2000.

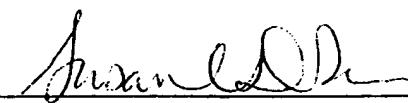
INNOVIR LABORATORIES, INC.



By: David A. Jackson
Title: Chairman

State of Delaware)
County of New Castle)

Then personally appeared the above named David A. Jackson,
authorized agent empowered to act on behalf of assignor Innovir Laboratories, Inc., and
acknowledged the foregoing instrument to be his/her free act and deed, before me this
24th day of January, 2000.



Notary Public

My Commission expires: 3/7/2001